



PS460L-32G-F

Flexible Low Loss Phase Stable Coaxial Cable (32GHz / 50 Ohm)

Max Frequency: 32 GHz
Phase vs Bending: ±0.3 °/GHz

Velocity of Prop.: 83%
Outer Jacket: Gray FEP

1. Structural Construction

Item	Material	Construction (mm)	Nom. O.D. (mm)
Inner Conductor	Silver Plated Copper (SPC)	1 / 1.29	1.29
Insulation	Low Density PTFE (LD-PTFE)	-	3.55
Inner Shield	Silver Plated Copper Strip	-	3.75
Outer Shield	Silver Plated Copper Wire Braid	-	4.15
Jacket	Gray Fluorinated Ethylene Propylene (FEP)	-	4.60

2. Electrical Characteristics

Impedance	50 Ω	Capacitance	80 pF/m
Max Operating Frequency	32 GHz	Velocity of Propagation	83 %
Screening Effectiveness	> 90 dB	Dielectric Withstanding Voltage	1500 V DC
Phase Stability vs Bending	±0.3 °/GHz	Phase Stability vs Temp (-45~+85°C)	≤ 750 PPM

3. Mechanical & Environmental Specifications

Min. Bending Radius (Static)	23.0 mm	Operating Temperature	-55 °C to +165 °C
Min. Bending Radius (Dynamic)	46.0 mm	Nominal Weight	0.048 kg/m
Replaceable Type Equivalent	IW 1801		

4. Attenuation & Power Handling Characteristics

Attenuation Formula: IL = K1 * sqrt(F_MHz) + K2 * F_MHz K1 = 0.81650, K2 = 0.00088		
Frequency (MHz)	Nom. Attenuation (dB/100m @ 25°C)	Max Power Handling (W @ 40°C)
300	14.41	1446
500	18.70	1114
1000	26.70	780
3000	47.35	440
6000	68.51	304
8000	80.04	260
10000	90.42	230
12400	101.79	205
18000	125.32	166
26500	156.15	133
32000	174.11	120